

20020501.ba v03_n329.bam.20020501

>From ???@??? Wed May 1 00:00:40 2002 -0500
Message-Id: <200205010500.g4150Y5d026103@sco.theporch.com>
Date: Wed, 1 May 2002 00:00:08 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3329

BOATANCHORS Digest 3329

Topics covered in this issue include:

- 1) Re: Receiver sensitivity comparisons
by David Ross <ross@hypertools.com>
- 2) Re: ITT/Mackay 3010C Receiver hint
by Bob Roehrig <broehrig@aurora.edu>
- 3) sx-28 Help
by Robert Kemp <rkemp@mr.net>
- 4) RE: TRC-7 Transceiver?
by "Robert W. Downs" <RWDowns_WA5CAB@compuserve.com>
- 5) Help identify old Signal Corps tester
by "Benjamin D. Hall" <kd5byb@earthlink.net>

Message-ID: <3CCECF0D.DF5BDFAC@hypertools.com>
Date: Tue, 30 Apr 2002 10:06:21 -0700
From: David Ross <ross@hypertools.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Receiver sensitivity comparisons
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Don and the gang -

Re the receiver sensitivity measurements...

Don Davis wrote:

>

> Of course the ITT performs better than the R390. It's a modern solid state
> unit, designed 25 years later. It should be better. The comparison is a
> bit biased, however, since the filter widths vary from unit to unit which
> will affect SN ratio.

>

The Mackay 3010C is a very late vacuum tube design - no solid-state parts except for the PS rectifiers. Electric radio did a nice writeup on the 3010C, and they mention a 'hot rod' Amperex tube used as 1st RF

amp in the radio.

Re filter widths - on each of the radios I put through the tests I use the filter which yields the best results. Yeah, it would be nice to be able to run the comparison with identical filters in each receiver, but you can't have everything - if you could swap out the filters, then it wouldn't be a 3010C anyway.

Both 3010Cs I had here used the same crystal filter, and both of them were real bumpy as far as passband flatness goes. Because of this, they had a real poor sound on AM.

I'd bet money that in their originally intended application (experienced operator, weak signal CW ops in a very quiet maritime environment), the Mackay 3010C would outperform any other receiver.

> Good info, however, on the ARC units. You don't see actual results on those
> very often.
>

I have a weakness for this ARC-58 radio - originally designed for front-line SAC bombers, used by SAC from the '60s through the '80s and was truly designed to be the best available at the time. ARC-58 black boxes also show up in several ground apps, like the TRC-75 Jeep radio and the TSC-15 radio shelter, and a lot of ARC-58 modules are used in the URC-32 (KWT-6).

A remarkable design for the late '50s - just dial in a frequency and key the radio, and in a few seconds you'll have a kilowatt and a very solid receiver on that frequency. Another piece of the legacy of Gen. Curtis LeMay.

73

Dave Ross N7EPI ross@hypertools.com

Date: Tue, 30 Apr 2002 12:44:17 -0500 (CDT)
From: Bob Roehrig <broehrig@aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ITT/Mackay 3010C Receiver hint
Message-ID: <Pine.OSF.4.43.0204301242520.242183-100000@mail.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 30 Apr 2002, Edward J Knobloch wrote:

> Maybe his 3010C has the same fault mine did: 455 kc IF energy

> getting to the input of the audio preamplifier tube.
> If the signal was strong enough, the preamp tube acted as a diode
> detector, causing a strange distortion. It wasn't cross modulation,
> due to other signals in the band, but envelope self-distortion.

That is a problem with many receivers with low (100KC, 50KC, etc) IF's.
inadequate filtering to get the IF component out. I remember once having
to resort to installing a L-C trap to cure the problem.

73 Bob Roehrig K9EUI
Aurora University Telecom/IS dept.
630-844-4898 broehrig@aurora.edu

Message-ID: <3CCF0857.17DBDB1C@mr.net>
Date: Tue, 30 Apr 2002 16:10:47 -0500
From: Robert Kemp <rkemp@mr.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: sx-28 Help
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Need a bit of info on the left (main) tuning knob on the SX-28.
Appears the graduated collar doesn't leave enough of the tuning cap.
shaft sticking out to put the knob on ! What's the deal AND the sizes
of the shafts are different. The graduated scale's shaft is somewhat
larger than the 1/4" standard shaft for the main tuning knob.
Bob

Date: Tue, 30 Apr 2002 19:28:43 -0400
From: "Robert W. Downs" <RWDowns_WA5CAB@compuserve.com>
Subject: RE: TRC-7 Transceiver?
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <200204301928_MC3-FC24-6491@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
 charset=ISO-8859-1
Content-Disposition: inline

Dave,

Yep. I have approximately four of them, two RT-53's and two RT-53-A's pl=

us
a parts unit. Had an RT-53B but it went north a while back. Nice little=
radio. If I come up with a few more bits and pieces, I may light one of
'em off.

Message text written by Mr. Dave
>Has anyone ever seen one of the TRC-7 VHF transceivers?
<

73
Robert Downs
<RWDowns_WA5CAB@compuserve.com>
Houston

Message-Id: <5.1.0.14.0.20020430232903.00ba4770@mail.earthlink.net>
Date: Tue, 30 Apr 2002 23:30:52 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@earthlink.net>
Subject: Help identify old Signal Corps tester
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hey gang...

Long time no post for me. Donated a kidney to my fiancée in February and
I'm just getting back up to speed on everything.

Anyways, one of my gun-buds has a test set that may be BA related. See
description and link below. Please reply direct to me to save bandwidth.

73,
ben

>I picked this old Signal Corps tester up at the flea market a while
>back and I was wondering if any of you guys might be able to tell me
>what it was used for and what era it's from. It's marked Signal Corps
>US Army Test Set TS-117/GP Sperry Gyroscope Co. Inc. I guess it's a
>gyroscope but what do you use a gyroscope for? The case has Rad Lab
>painted on it so I'm guessing it's a tester for either radio or radar
>equipment. I took a couple of pictures of it if they'll help any.
>
><http://photos.yahoo.com/bc/tuckahoe27/1st?.dir=/My+Photos&.src=ph&.view=>
>

From the computer of Benjamin D. Hall, kd5byb@earthlink.net.
Northern Alabama, USA.

End of BOATANCHORS Digest 3329
